

Fig. 1

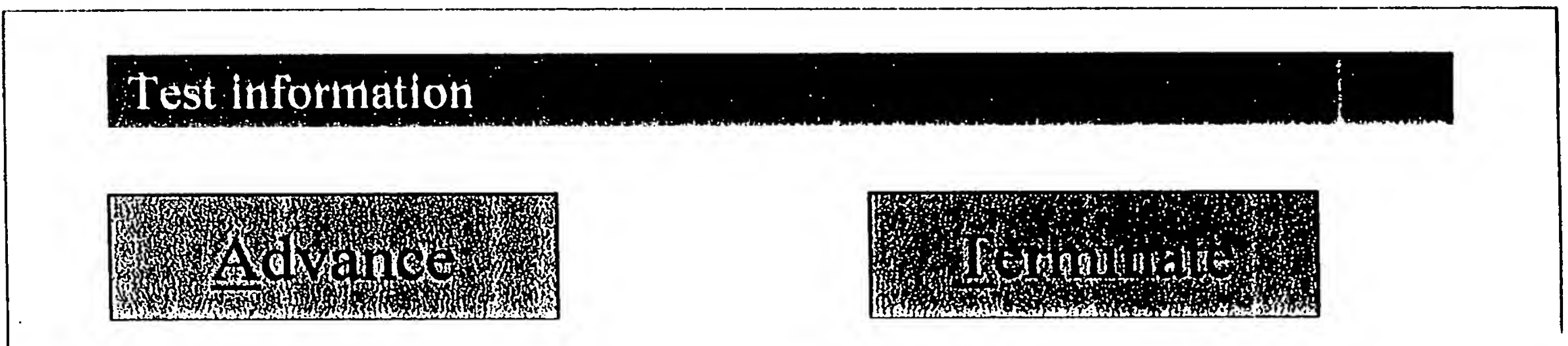


Fig. 2

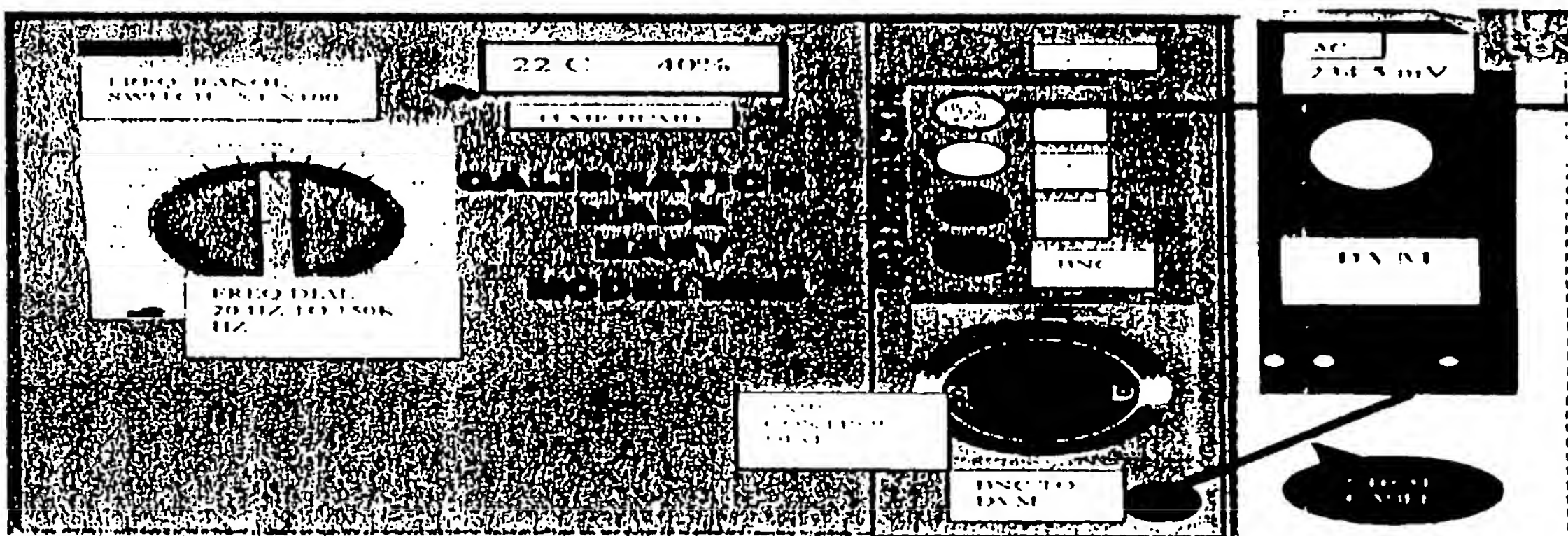


Fig. 3

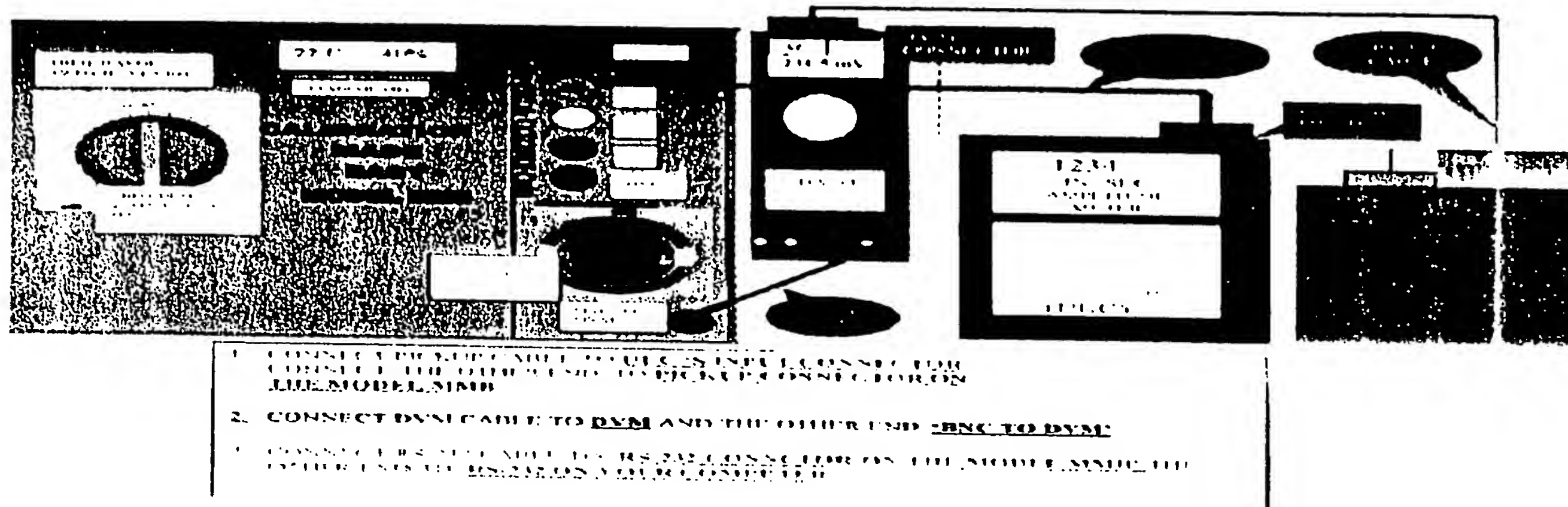


Fig. 4

## Calibration Results VIBRATION ANALYSIS LIMITED

UNIT: ICP 328F01  
 ACCELEROMETER  
 Serial No: 27024  
 Asset No: 991111R

Result: PASS  
 Performed on: 3/1/02 at 12:18:00  
 Performed by: DARLENE TURNER  
 Environment: Temp: 20.2°C Humid: 37 %  
 Condition F/L: FOUND LEFT  
 Procedure Completed:

Notes:

| Manufacturer | Model    | Description         | Cal. Date | Due Date  |
|--------------|----------|---------------------|-----------|-----------|
| VALTEC 100   | FLUKE    | DVM                 | 10-Sep-01 | 10-Sep-02 |
| 00174        | DYNAMIC  | TRANSDUCER 1K11R    | 11-Apr-01 | 11-Apr-02 |
| 0001103      | ENTER/NO | STANDARD TRANSDUCER | 10-Jan-02 | 17-Jan-03 |
| 0004138      | ENTER/NO | STANDARD TRANSDUCER | 10-Jan-02 | 17-Jan-03 |

| TEST# | REF. PARAMETER    | TRUE VALUE | READING | TOLERANCE | UNIT | UNDER TEST | NOTIFY FOR USER |
|-------|-------------------|------------|---------|-----------|------|------------|-----------------|
| 1     | TOLERANCE 1 / 100 | 15.0 Hz    | 103     | 1.2mv     | 31   |            |                 |
| 2     | 10000 Hz 100Hz    | 100.0 Hz   | 106     | 6.2mv     | 50   |            |                 |
| 3     | 10000 Hz 100Hz    | 100.0 Hz   | 107     | 6.9mv     | 65   |            |                 |
| 4     | 10000 Hz 100Hz    | 100.0 Hz   | 107     | 6.9mv     | 65   |            |                 |
| 5     | 10000 Hz 100Hz    | 100.0 Hz   | 107     | 7.1mv     | 68   |            |                 |

End of Test Data

EXAMPLE

Fig. 5

## Calibration Results GRB ENTERPRISE

UUT: FLUKE 87  
DVM  
Serial No: VALTE108  
Asset No. VALTE108

Result: **FAIL**  
Performed on: 8/1/03 at 09:52:00  
Performed by: Carlos R. Hill  
Environment: Temp. 23.5°C Humid. 40 %  
Circuitry F/L: FOUND-LEFT  
Procedure Completed:

Notes:

**EXAMPLE**

### Standards Used

| Asset | Mfg | Model | Description | Cal. Date | Due Date |
|-------|-----|-------|-------------|-----------|----------|
|-------|-----|-------|-------------|-----------|----------|

### Test Data

| TEST# | STD<br>PARAMETER                    | TRUE<br>VALUE | UNIT UNDER TEST<br>READING TOLERANCE UUT ERROR | ERROR in<br>(% of Tol) | NOTIFY<br>TUR USER |
|-------|-------------------------------------|---------------|--|------------------------|--------------------|
| 1     | Asset # or Serial # of MODEL MMB    |               |  |                        |                    |
| 1     | ABCD1234                            |               |  |                        |                    |
| 1     | 05/10/03                            |               |  |                        |                    |
| 1     | Asset # or Serial # of Transducer 1 |               |  |                        |                    |
| 1     | 113456789                           |               |  |                        |                    |
| 1     | Asset # or Serial # of Transducer 1 |               |  |                        |                    |
| 1     | 544                                 |               |  |                        |                    |
| 1     | Asset # or Serial # of Transducer 2 |               |  |                        |                    |
| 1     | 6123456                             |               |  |                        |                    |
| 1     | Asset # or Serial # of Transducer 2 |               |  |                        |                    |
| 1     | 544                                 |               |  |                        |                    |
| 1     | HART SIGNAL CHECK                   |               |  |                        |                    |
| 1     | Result of Operator Evaluation       |               |  | PASS                   |                    |
| 2     | READING IN DIAP                     |               |  |                        |                    |
| 2     | 100.0 Hz test                       |               |  |                        |                    |
| 2     | .9 to 1.0                           |               |  |                        |                    |
| 2     | Result of Operator Evaluation       |               |  | PASS                   |                    |
| 3     | AC 0.015 V                          |               |  |                        |                    |
| 3     | 50.0 Hz test                        |               |  |                        |                    |

End of Test Data

Fig. 6

VIBRATION ANALYSIS LIMITED

3600 SUNSHINE RD.  
COLUMBIA, MD 21046  
1-800-360-4988  
410-476-0740  
FAX 410-476-0784  
www.vibrationanalysis.net

Certificate of  
Calibration

DRAFT

EXAMPLE

For Instrument: ICP 320F01  
Description: ACCELEROMETER  
Asset Number: 0011110 Serial Number: 27012

VIBRATION ANALYSIS LIMITED TESTING SERVICES HEREBY CERTIFIES THAT:  
the above described instrument met or exceeded all published specifications at the time of calibration  
specified below; and has been calibrated using standards whose accuracies are traceable to the National  
Institute of Standards and Technology (NIST) within the limitations of the Institute's calibration services,  
or have been derived from accepted values or physical constants, or have been derived by ratio or self  
calibration techniques. All test are performed with a TUR (Test Uncertainty Ratio) of 4:1 unless  
otherwise specified. All calibration activities performed are in compliance with  
ANSI/NCSL Z540, ISO/GUIDE 25, AND MIL-STD 45662A

CALIBRATION INFORMATION

Cal Date Time 3/1/02 14:20:00 Temperature 26.20°C Company  
Next Cal Due 2/28/03 Humidity 37 % Address  
Pass Y Tech DARLENE TURNER C/S/Z  
Seals OK Y Note PO#  
Cal Procedure ICP ACCELEROMETER Revision 1.0

| Alt. Asset Number | Mfg       | Model  | Description         | Cal. Date | Due Date |
|-------------------|-----------|--------|---------------------|-----------|----------|
| VALTE106          | FLUKE     | 87     | DVM                 | 9/10/01   | 9/10/02  |
| 0074              | DYNAMIC   | DI-603 | TRANSDUCER TESTER   | 4/11/01   | 4/11/02  |
| 0001183           | ENTERKARD | 970    | STANDARD TRANSDUCER | 1/19/02   | 1/17/03  |
| 0004138           | ENTERKARD | 644    | STANDARD TRANSDUCER | 1/19/02   | 1/17/03  |

Signature:

This certification shall not be reproduced, except in full, without the  
written permission of VIBRATION ANALYSIS LIMITED

Fig. 7

GRB ENTERPRISE

<report substitution int. user1>  
<report substitution int. user2>

Failed Calibration Report

DRAFT

For Instrument: FLUKE 87  
Description: DVM  
Asset Number: VALTE106 Serial Number: VALTE106

GRB ENTERPRISE hereby certifies that...  
the above described instrument met or exceeded all published specifications at the time of calibration  
specified below; and has been calibrated using standards whose accuracies are traceable to the National  
Institute of Standards and Technology (NIST) within the limitations of the Institute's calibration services,  
or have been derived from accepted values or physical constants, or have been derived by ratio or self  
calibration techniques. All calibration activities performed are in compliance with MIL-STD-45662A.

CALIBRATION INFORMATION

Cal Date Time 5/26/03 04:22:00 Temperature 23.60°C Shop  
Next Cal Due 5/26/03 Humidity 40 % Work Order  
Pass I Tech Carlos R. Hill  
Seals OK Y Note  
Cal Procedure CME IRD 810 TEST 1(844) Revision 1.0

STANDARDS USED FOR CALIBRATION

| Asset Number | Mfg | Model | Description | Cal. Date | Due Date |
|--------------|-----|-------|-------------|-----------|----------|
|--------------|-----|-------|-------------|-----------|----------|

Signed: \_\_\_\_\_

EXAMPLE

Fig. 8



Fig. 10

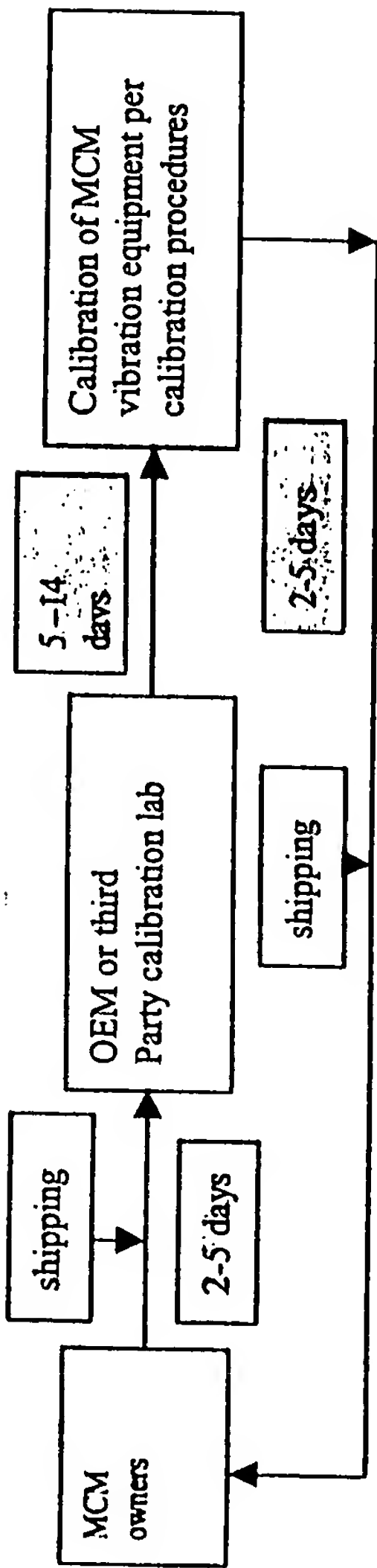


Fig. 11 (PRIOR ART)